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RESOURCES

ADVANCED ON-THE-JOB TRAINING SYSTEM:
SYSTEM SUPPORT COMPUTER PROGRAM CONFIGURATION ITEM

Douglas Aircraft Company
A Division of McDonnell Douglas Corporation
2450 South Peoria
Aurora, Colorado 80014

TRAINING SYSTEMS DIVISION
Brooks Air Force Base, Texas 78235-5601

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SYSTEM SUPPORT COMPUTER PROGRAM CONFIGURATION ITEM

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Reviewed and submitted for publication by

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This publication is primarily a working paper. It is published solely to document work performed.

SUMMARY

The Advanced On-the-jot Training System (AOTS) was an Air Staff directed, AFHRL developed, prototype system which designed, developed, and tested a proof-of-concept prototype AOTS within the operational environment of selected work centers at Bergstrom AFB, Texas and Ellington ANGB, Texas from August 1985 through 31 July 1989. This report provides the requirements for the complete identification of the System Support Computer Program Configuration Item (CPCI) of the software component of the AOTS. The System Support CPCI is required by the other CPCIs to interface with the Hardware Component.



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PREFACE

This specification report establishes the requirements for complete identification of the System Support Computer Program Configuration Item (CPCI) for the software component of the Advanced On-the-job Training System (AOTS) Computer Support System. This document was developed by the contractors on the project, Douglas Aircraft Company (Contract No. F33615-84-C-0059). The AFHRL Work Unit number for the project is 2557-00-02. The primary office of responsibility for management of the work unit is the Air Force Human Resources Laboratory, Training Systems Division, and the Air Force AOTS manager is Major Cack Blackhurst.

CONTENTS

Section		Page
1. 1.1 1.2	SCOPE Identification Functional Summary	. 1
2. 2.1 2.2	APPLICABLE DOCUMENTS	. 2
3. 3.1 3.1.1 3.1.1.1 3.1.1.2 3.1.1.3 3.1.1.4 3.1.1.5 3.1.1.6 3.1.2 3.2 3.3 3.3.1 3.3.2 3.3.2	REQUIREMENTS. CPCI Structural Description. CPC Descriptions. Off the Shelf Software. Virtual Machine Interface. Application Support Environment. Access Control. Terminal Support Software. Utilities Software. CPC Relationships. Functional Flow Diagrams/Charts Interfaces. Interface Requirements. Detailed Interface Definition.	4 4 4 5 5 5 6 6 6 7 7 8 8 8 8 8 8
3.3.2.1 3.3.2.2 3.3.2.3 3.3.2.4 3.3.2.5 3.3.2.6 3.3.2.7 3.4 3.5 3.6	Terminal Input/Output. Data Base Input/Output. System Services. Access Control. Text Editing. Compilations. Airman Information. Program Interrupts. Timing and Sequencing Description. Special Control Features.	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

CONTENTS (Cont'd)

Section		Page
3.7	Storage Allocation	10
3.7.1	Data Base Definition	
3.7.1.1	File Description	
3.7.1.2	Table Description	
3.7.1.3	Item Description	
3.7.1.4	Graphic Table Description	
3.7.1.5	CPCI Constants	12
3.8	Object Code Creation	
3.9	Adaptation Data	
3.10	Detail Design Description	
4.	QUALITY ASSURANCE	42
5.	PREPARATION FOR DELIVERY	42

FIGURES

Figure 1	System Support CPCI	43
	TABLES	
Table 1	CPC Cross Reference Matrix	44
	APPENDICES	
Appendix		
	Appendix A	
10.	CPC Tables	A-i
	Appendix B	
20.	CPC Reference List and Charts	R-i

1. SCOPE

- 1.1 <u>Identification</u>. This specification establishes the requirements for complete identification of the System Support Computer Program Configuration Item (CPCI) of the software component of the Advanced On-the-job Training System (AOTS) Computer Support Subsystem.
- 1.2 <u>Functional Summary</u>. The System Support CPCI shall be composed of the functions required by the other CPCIs to interface with the Hardware Component, described in 70S647401. This CPCI shall perform operating system functions, terminal communication, and data base input/output, and shall provide security functions by controlling access to the system. Purchased software such as a compiler, an editor, and a statistical analysis package shall be part of this CPCI. Also a part of this CPCI shall be utility software common to the other CPCIs.

2. APPLICABLE DOCUMENTS

23 April 85

2.1 Government Documents. The following documents of the exact issue shown form a part of this specification to the extent specified herein. In the event of conflict between the documents referenced and the contents of this specification, the contents of this specification shall be the superceding requirement, with the exception of the AOTS System Specification.

SPECIFICATIONS: 705647000 System Specification for the Advanced On-the-job Training System 70S647100 Prime Item Development Specification for the Management Subsystem of the Advanced On-the-job Training System Prime Item Development Specification 705647200 for the AOTS Training Development and Delivery Subsystem 70S647202 Critical Item Development Specification for the Training Delivery Component of the AOTS Training Development and Delivery Subsystem 70S647300 Prime Item Development Specification for the AOTS Evaluation Subsystem 70S647400 Prime Item Development Specification for the Computer Support Subsystem of the Advanced On-the-job Training System 70S647401 Critical Item Development Specification for the Hardware Component of the Advanced On-the-job Training System 70S647411 AOTS Management Computer Program Configuration Item Development Specification 70S647412 AOTS Training Development and Delivery Computer Program Configuration Item Development Specification 70S647413 AOTS Evaluation Computer Program Configuration Item Development Specification STAND-109 Computer Program Product Specification

for the ISS Support Environment

Specification Number 70S647414

Code Ident 76301 Date: 23 June 1989

STANDARDS:

MIL-STD-483 Configuration Management Practices for (USAF) Systems, Equipment, Munitions, and Computer 21 March 79 Programs
MIL-STD-1815A Reference Manual for the ADA Programming

1983 Language

OTHER PUBLICATIONS:

AOTS Software Development Plan AOTS Software Test Plan AOTS Human Engineering Program Plan

2.2 Non-Government Documents

OTHER PUBLICATIONS:

Gane, Chris and Sarson, Trish
Structured Systems Analysis: Tools and
Techniques, October 1977
International Business Machines Corporation
HIPO - A Design Aid and Documentation

Technique, May 1975

3. REQUIREMENTS

This section contains performance and design requirements for the AOTS System Support CPCI.

3.1 CPCI Structural Description. This CPCI shall be broken down into six major subdivisions. These subdivisions are: Off the Shelf Software, Virtual Machine Interface, Application Support Environment, Access Control, Terminal Support Software, and Utilities. Each subdivision is divided into functions which together provide the automated support for the subdivision.

Off the Shelf Software shall consist of the purchased or leased system software that is required to provide computer support to The Virtual Machine Interface shall provide the Application Support Environment with interfaces to the host operating system. The Application Support Environment shall provide terminal and file management input/output functions, routines, and program control and communication services to the Management, Evaluation, and Training Development and Delivery CPCIs. Access Control shall manage user entry to the AOTS computer system, provide authorization for users to access programs, and control the file access permissions and data access that a user is allowed within a program. Terminal Support Software shall consist of software packages required to support the AOTS terminal. Utilities shall provide support software common to the other CPCIs.

The six subdivisions are identified in figure 1 in a hierarchial manner. This Hierarchy plus Input-Processing-Output (HIPO) diagram provides a visual table of contents for the CPCI (see HIPO - A Design Aid and Documentation Technique, IBM, 1975). Only the highest level of HIPO diagram is used here: the Visual Table of Contents.

3.1.1 <u>CPC Descriptions</u>. The six subdivisions of the System Support CPCI are described below by specifying the further breakdown of the CPCI into the individual CPCs that comprise the CPCI. These CPCs are listed by CPC number to provide the reference to the detail design in 3.10. The configuration management (CM) identification and the actual Ada name is also supplied for each CPC. The CM identifications are based on the format specified in the AOTS Configuration Management Plan.

3.1.1.1 Off the Shelf Software. The Off the Shelf Software subdivision is composed of the following CPCs:

CPC No	CM Id	<u>Name</u>
1		VAX/VMS OPERATING SYSTEM
2		VAX/ADA COMPILER
3		VAX FORTRAN
5		ALSYS ADA COMPILER
6		MS-DOS OPERATING SYSTEM
7		ZDS ZSTEM

3.1.1.2 <u>Virtual Machine Interface</u>. The Virtual Machine Interface subdivision is existing ISS software and is composed of the following CPCs:

CPC	No	CM Id	<u>Name</u>
		-	

4 ISS SUPPORT ENVIRONMENT

3.1.1.3 <u>Application Support Environment</u>. The Application Support Environment subdivision is existing ISS software and is composed of the following CPCs:

CPC No	CM Id	Name

4

ISS SUPPORT ENVIRONMENT

3.1.1.4 Access Control

CPC No	CM Id	Name
8	SUP024S, SUP024B	RANDOM PASSWORD
9	SUP026S, SUP026B	USER TYPE
10	SUP027P	AOTS LOGON

3.1.1.5 <u>Terminal Support Software</u>. The Terminal Support Software subdivision shall consist of the following CPCs:

CPC No	CM Id		Name
11	SUP010P		TERMINAL
12	SUP011P		SCREEN_DUMP
13	SUP012S,	SUP012B	COM_PORTS
14	SUP013S,	SUP013B	KEYBOARD
15	SUP015S,	SUP015B	KBD
16	SUP016S,	SUP016B	ASMINT
17	SUP017S,	SUP017B	GRBAS
18	SUP018A		COM_CODE
19	SUP019A		GRAF_CODE
20	SUP020P		PATH_OPEN
21		SUP021B	
22		SUP022B	
23	SUP023S,	SUP023B	ALPS_SETUP
39	SUP036P		DOS_PATH_OPEN
40	SUP037A		LOGICAL
41	SUP038P		CALIBRATE
42	SUP039S,	SUP039B	TOUCH
43	SUP040P		SETOMODE
44	SUP041S,	SUP041B	SONY
45	SUP042S,	SUP042B	IVD

3.1.1.6 <u>Utilities Software</u>. The Utilities Software subdivision shall consist of the following CPCs:

CPC No	CM_Id		Name
24	SUP001S,	SUP001B	SCREEN IO
25	SUP004S,	SUP004B	LISTPKG
26	SUP005S,	SUP005B	EDFIELD
27	SUPOO6S,	SUP006B	UTILITIES
28	SUP007S,	SUP007B	DATE_TIME
29	SUP009S,	SUP009B	HELPTEXT
30	SUP014S,	SUP014B	EXPRESSION_HANDLER
31	SUP028S,	SUP028B	ITEM_EDITOR
32	SUP029S,	SUP029B	ITEM_SUP_TYPES
33	SUP030S		GLOBALS
34	SUP031S,	SUP031B	PRINT_SUPPORT
35	SUP032S,	SUP032B	LOG_IO
36	,	SUP033B	DMSF
37	SUP034P		CALL DCL
38	SUP035S,	SUP035B	SWAP EMULATORS

- 3.1.2 <u>CPC Relationships</u>. The functional requirements of the System Support CPCI as specified in the Part I System Support CPCI Specification shall be accomplished via the CPCs identified in 3.1.1. Table 1 contains a list of these requirements and the CPC that will accomplish them. The relationship of the System Support CPCI and its CPCs is described in 3.2.
- 3.2 <u>Functional Flow Diagrams/Charts</u>. The ADL included in the Unit Development Folder (UDF) describes the functional flow of the System Support CPCI. Appendix B contains graphic charts depicting the CPCs referenced by each CPC in the CPCI and showing the CPCs referencing each CPC. These charts provide a quick index into the detailed design provided in the ADL of the UDF.

3.3 Interfaces

3.3.1 Interface Requirements

- 3.3.2 <u>Detailed Interface Definition</u>. The functional interfaces between the System Support CPCI and the other software CPCIs are described below.
- 3.3.2.1 <u>Terminal Input/Output</u>. The System Support CPCI shall provide functions to the other AOTS CPCIs for performing terminal input/output. The Terminal Communication software described in paragraph 3.2.3.4 shall accomplish this interface. The terminal i/o services provided shall include the following:

A. Accepting input from a terminal keyboard;

B. Accepting coordinate data from a digitizer tablet;

C. Sending text data to a terminal screen;

D. Sending graphics data to a terminal screen;

E. Accepting mark reader input.

- 3.3.2.2 <u>Data Base Input/Output</u>. The System Support CPCI shall provide functions to the other AOTS CPCIs for performing data base input/output. The Data Management software described in paragraph 3.2.3.3 shall accomplish this interface. The data base i/o services shall fall into two categories: file level and record level functions. File level services shall include the following.
 - A. Allocation and deallocation of indexed sequential, direct access, and sequential files;
 - B. Logically attaching (opening) and detaching (closing) files to/from a program;
- C. Removing (purging) all existing data from a file.
 Record level input/output services shall include the following:
 - A. Reading a record;
 - B. Writing a record;
 - C. Deleting a record;
 - D. Reserving and releasing a record for/from exclusive use;
 - E. Updating an existing record.

- 3.3.2.3 <u>System Services</u>. The System Support CPCI shall provide functions to the other AOTS CPCIs for performing system services. The Program Control software described in paragraph 3.2.3.1 shall accomplish this interface. The services provided shall include the following miscellaneous functions:
 - A. Initiating and terminating program execution;
 - B. Communicating between programs;
 - C. Allocating and deallocating memory;
 - D. Clock and timer services;
 - E. Printer output functions.
- 3.3.2.4 Access Control. The System Support CPCI shall provide access control functions to the other AOTS CPCIs. The Security Interface software described in paragraph 3.2.4.3 shall provide these functions. The functions shall include identifying and validating a person as a user of the AOTS, determining the authorization characteristics of the user, and determining what data a user has access to.
- 3.3.2.5 <u>Text Editing</u>. The System Support CPCI shall provide text editing functions to the other AOTS CPCIs. The Off the Shelf Software, Text Editor, described in paragraph 3.2.1.3 shall provide source editing functions which will be used during software development and testing.
- 3.3.2.6 <u>Compilations</u>. The System Support CPCI shall provide software compilation functions to the other AOTS CPCIs. The Off the Shelf Software, Compilers, described in paragraph 3.2.1.2 shall provide the program and module compilation functions which will be used during software development and testing.
- 3.3.2.7 <u>Airman Information</u>. The System Support CPCI shall utilize a function, the Airman Data Access Function, provided by the Management CPCI for accessing ATR and ITR data for airmen. Airman identification shall be used as input to this function. Output shall the ATR and/or ITR data for the airman.
 - 3.4 <u>Program Interrupts</u>. Not applicable.
- 3.5 <u>Timing and Sequencing Description</u>. Sequencing of the programs is not dynamically controlled. As such no special considerations, other than the sequencing described in section 3.10 is needed.
 - 3.6 Special Control Features. Not applicable.

Specification Number 70S647414

Code Ident 76301 Date: 23 June 1989

3.7 Storage Allocation

- 3.7.1 Data Base Definition
- 3.7.1.1 File Description.

File <u>Access Record Type Assoc</u> CPC Name 1 VAX/VMS OPERATING SYSTEM 2 VAX/ADA COMPILER 3 VAX FORTRAN 4 ISS SUPPORT ENVIRONMENT 5 ALSYS ADA COMPILER 6 MS-DOS OPERATING SYSTEM 7 ZDS ZSTEM 8 RANDOM PASSWORD 9 USER TYPE SUP026XD IN/OUT USER TYPE. VALID USERS REC TYPE SUP026XI IN/OUT USER_TYPE.SUPERVISOR_TYPE USER TYPE.SSN AND NAME TYPE SUP026YI IN 10 AOTS LOGON SYSTEMLOG OUT LGTYP. LOG REC TYPE OUT A01USRNAM.USER REC TYPE AUSRUSR LGTYP.CTL_REC_TYPE CTLFILE ADASECURE OUT SACCESS.IMSEC REC TYPE ADAGRAPH IN GRTYPES.DRAWING TYPE 11 TERMINAL 12 SCREEN DUMP 13 COM PORTS COMSETUP.DAT IN/OUT STRING COMSETUP.IVD IN/OUT STRING 14 KEYBOARD 15 KBD 16 ASMINT 17 GRBAS 18 COM CODE 19 GRAF CODE 20 PATH OPEN 21 HP SETUP 22 OKI SETUP 23 ALPS SETUP 24 SCREEN IO 25 LISTPKG 26 EDFIELD 27 UTILITIES 28 DATE TIME SUP009IA IN/OUT HELPTEXT.HELP RECORD TYPE 29 HELPTEXT

CPC	Name	File	Access	Record Type Assoc
30	EXPRESSION_HANDLE	ER		
	ITEM_EDITOR	•		
32	ITEM_SUP TYPES			
33	GLOBALS			
34	PRINT_SUPPORT	SUP031AS	IN	STRING
		MGT032DI	IN	ATR.ATR TYPE
35	LOG_IO	EVENT. LOC	TUO 3	STRING -
36	DMSF			
37	CALL_DCL			
38	SWAP_EMULATORS	TDEFILE	IN	DVI.TDEFILEMAPTYPE
				DVI.TERMINALDEVICEMAPTYPE
				DVI.TERMINALNAMEMAPTYPE
				DVI.TERMINALCOMPONENTMAPTYPE
		SUP035AS	OUT	STRING -
	DOS_PATH_OPEN			
	LOGICAL			
41	CALIBRATE	CALIB. DAT	TUO T	STRING
42	TOUCH	CALIB. DAT	r in	STRING
43	SETOMODE			
44	SONY			
45	IVD			

- 3.7.1.2 <u>Table Description</u>. Not applicable.
- 3.7.1.3 <u>Item Description</u>. The composite structures in the data base are identified in 3.7.1.1 with direct references to the CPC defining the structure. The structures and thus the items in the structure are described in the ADL included in the Unit Development Folder (UDF).
 - 3.7.1.4 Graphic Table Description. Not applicable.
- 3.7.1.5 <u>CPCI Constants</u>. There are no global CPCI constants. The Ada visibility rules determine the extent of the visibility of the constants defined in the individual CPCs. The CPC detailed descriptions in section 3.10 identify the constants defined and the scope of the visibility of these constants. The ADL provided should be reviewed for proper end usage of any constant.
- 3.8 Object Code Creation. Object code shall be created using the hardware identified in the System Support CPCI Part I specification in section 3.1.1. The computer programs required, hardware information, and procedures required are as shown in the documentation for the related government furnished hardware and software.
 - 3.9 Adaptation Data. Not applicable.

3.10 Detail Design Description

- 3.10.1 <u>Identification of CPC No. 1.</u> This CPC is composed of the VAX/VMS Operating System on the VAX 8600 located at Brooks Air Force Base. This CPC is supplied as government furnished software and is described in the supporting documentation distributed by Digital Equipment Corporation. The version of the operating system supplied is 4.7.
- 3.10.2 <u>Identification of CPC No. 2.</u> This CPC is composed of the VAX/Ada Compiler on the VAX 8600 located at Brooks Air Force Base. This CPC is supplied as government furnished software and is described in the supporting documentation distributed by Digital Equipment Corporation. The version of the operating system supplied is 1.5.
- 3.10.3 <u>Identification of CPC No. 3.</u> This CPC is composed of the VAX Fortran Compiler on the VAX 8600 located at Brooks Air Force Base. This CPC is supplied as government furnished software and is described in the supporting documentation distributed by Digital Equipment Corporation. The version of the operating system supplied is 4.8.
- 3.10.4 <u>Identification of CPC No. 4.</u> This CPC is composed of the ISS Support Environment. This CPC is supplied as government furnished software and is described in the "Final Computer Program Product Specification for the Instructional Support Software System Support Environment" (STAND-109, 23 April 1985).
- 3.10.5 <u>Identification of CPC No. 5.</u> This CPC is composed of the Alsys Ada Compiler operating on IBM PC/AT and compatibles (including the Zenith Data Systems Z248). This CPC is described in the supporting documentation distributed by Alsys, Inc. The version of the compiler is Version 1.2.
- 3.10.6 <u>Identification of CPC No. 6.</u> This CPC is composed of the MS-DOS Operating System to operate on the Zenith Data Systems Z248 microcomputer. This CPC is supplied as government furnished software and is described in the supporting documentation distributed by Zenith Data Systems. The version of the operating system is Version 3.1.
- 3.10.7 <u>Identification of CPC No. 7.</u> This CPC is composed of the ZDS ZSTEM terminal emulation software of operate on the Zenith Data Systems Z248 microcomputer. This CPC is supplied as government furnished software and is described in the supporting

documentation distributed by Zenith Data Systems. The version of the emulator is Version 2.

- 3.10.8 <u>Identification of CPC No. 8</u>. This CPC is composed of the Ada package designated by CM identification code SUP024S and SUP024B and named RANDOM PASSWORD.
- 3.10.8.1 <u>CPC No. 8 Description</u>. The purpose of this package is to generate the secure password for the User and to validate the user on the system.
- 3.10.8.2 <u>CPC No. 8 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.8.3 <u>CPC No. 8 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.8.4 <u>CPC No. 8 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.8.5 <u>CPC No. 8 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.8.6 <u>CPC No. 8 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.9 <u>Identification of CPC No. 9</u>. This CPC is composed of the Ada package designated by CM identification code SUP026S and SUP026B and named USER TYPE.
- 3.10.9.1 <u>CPC No. 9 Description</u>. This package shall provide utilities for the user interface to the system and the user information to other packages. This package shall also provide the supervisor list and capabilities such as defining, removing of the list and selecting an individual from the list.

- 3.10.9.2 <u>CPC No. 9 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.9.3 <u>CPC No. 9 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.9.4 <u>CPC No. 9 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.9.5 <u>CPC No. 9 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.9.6 <u>CPC No. 9 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.10 <u>Identification of CPC No. 10</u>. This CPC is composed of the Ada procedure designated by CM identification code SUP027P and named AOTS LOGON.
- 3.10.10.1 <u>CPC No. 10 Description</u>. This package shall integrate all the AOTS softwares, interface users to the system and provide interface between ISS softwares and ISS system utilities to the AOTS system.
- 3.10.10.2 <u>CPC No. 10 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.10.3 <u>CPC No. 10 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.10.4 CPC No. 10 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the

- UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.10.5 <u>CPC No. 10 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.10.6 <u>CPC No. 10 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.11 <u>Identification of CPC No. 11</u>. This CPC is composed of the Ada procedure designated by CM identification code SUP010P and named TERMINAL.
- 3.10.11.1 <u>CPC No. 11 Description</u>. This procedure shall provide the capability to use the Z-248 (and compatibles) as a high resolution color graphics terminal. This terminal emulator shall also provide the capability to perform screen prints on the AOTS supported printers.
- 3.10.11.2 <u>CPC No. 11 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.11.3 <u>CPC No. 11 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.11.4 CPC No. 11 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.11.5 <u>CPC No. 11 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.11.6 <u>CPC No. 11 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.12 <u>Identification of CPC No. 12</u>. This CPC is composed of the Ada procedure designated by CM identification code SUP011P

and named SCREEN DUMP.

- 3.10.12.1 <u>CPC No. 12 Description</u>. Screen_Dump shall provide the capability to dump the current Z-248 screen display generated from the terminal emulator to any of the AOTS supported printers.
- 3.10.12.2 <u>CPC No. 12 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.12.3 <u>CPC No. 12 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.12.4 <u>CPC No. 12 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.12.5 <u>CPC No. 12 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.12.6 <u>CPC No. 12 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.13 <u>Identification of CPC No. 13</u>. This CPC is composed of the Ada package designated by CM identification code SUP012S and SUP012B and named COM PORTS.
- 3.10.13.1 CPC No. 13 Description. Com_Ports shall provide the interface to the Z-248 communications ports to read the data from the host and other devices connected to alternate ports in a full eight bit binary mode.
- 3.10.13.2 <u>CPC No. 13 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.13.3 <u>CPC No. 13 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross

reference tables identifying the CPCs that interface to this CPC.

- 3.10.13.4 <u>CPC No. 13 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.13.5 <u>CPC No. 13 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.13.6 <u>CPC No. 13 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.14 <u>Identification of CPC No. 14</u>. This CPC is composed of the Ada package designated by CM identification code SUP013S and SUP013B and named KEYBOARD.
- 3.10.14.1 <u>CPC No. 14 Description</u>. This package shall accept input from the terminal recognizing keypresses defined to be specific functions.
- 3.10.14.2 <u>CPC No. 14 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.14.3 <u>CPC No. 14 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.14.4 <u>CPC No. 14 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.14.5 <u>CPC No. 14 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

- 3.10.14.6 <u>CPC No. 14 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.15 <u>Identification of CPC No. 15</u>. This CPC is composed of the Ada package designated by CM identification code SUP015S and SUP015B and named KBD.
- 3.10.15.1 <u>CPC No. 15 Description</u>. This package shall provide the capability to read user keypresses as either 8 bit fields supporting all function keys or as standard characters. Support for use of soft key translations is also provided.
- 3.10.15.2 <u>CPC No. 15 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.15.3 <u>CPC No. 15 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.15.4 <u>CPC No. 15 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.15.5 <u>CPC No. 15 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.15.6 <u>CPC No. 15 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.16 <u>Identification of CPC No. 16</u>. This CPC is composed of the Ada package designated by CM identification code SUP016S and SUP016B and named ASMINT.
- 3.10.16.1 <u>CPC No. 16 Description</u>. AsmInt shall provide the interface to several assembler routines. These routines provide functionality not directly available in Ada or needing extreme performance improvements.

- 3.10.16.2 CPC No. 16 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.16.3 <u>CPC No. 16 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.16.4 <u>CPC No. 16 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.16.5 <u>CPC No. 16 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.16.6 <u>CPC No. 16 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.17 <u>Identification of CPC No. 17</u>. This CPC is composed of the Ada package designated by CM identification code SUP017S and SUP017B and named GRBAS.
- 3.10.17.1 CPC No. 17 Description. GrBas shall provide support for low-level screen control on the Z-248 by providing an interface to the EGA card and basic graphic functions.
- 3.10.17.2 <u>CPC No. 17 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.17.3 <u>CPC No. 17 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.17.4 CPC No. 17 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the

- UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.17.5 <u>CPC No. 17 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.17.6 <u>CPC No. 17 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.18 <u>Identification of CPC No. 18</u>. This CPC is composed of the assembly language source code designated by CM identification code SUP018A and named COM_CODE.
- 3.10.18.1 <u>CPC No. 18 Description</u>. Com_Code shall provide interrupt and low level support for the communications ports on the Zenith Z248 system.
- 3.10.18.2 <u>CPC No. 18 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.18.3 CPC No. 18 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF.
- 3.10.18.4 <u>CPC No. 18 Data Organization</u>. The data organization of this CPC is detailed in the ASM source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.18.5 <u>CPC No. 18 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the ASM source code provided in the UDF. No other limitations exist for this CPC except those defined in the ASM source code.
- 3.10.18.6 <u>CPC No. 18 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.19 <u>Identification of CPC No. 19</u>. This CPC is composed of the assembly language source code designated by CM identification code SUP019A and named GRAF CODE.
- 3.10.19.1 <u>CPC No. 19 Description</u>. Graf_Code shall provide interrupt and low level support for the graphics display functions

on the Zenith Z248 system.

- 3.10.19.2 CPC No. 19 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.19.3 <u>CPC No. 19 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF.
- 3.10.19.4 <u>CPC No. 19 Data Organization</u>. The data organization of this CPC is detailed in the ASM source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.19.5 <u>CPC No. 19 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the ASM source code provided in the UDF. No other limitations exist for this CPC except those defined in the ASM source code.
- 3.10.19.6 <u>CPC No. 19 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.20 <u>Identification of CPC No. 20</u>. This CPC is composed of the Ada procedure designated by CM identification code SUP020P and named PATH OPEN.
- 3.10.20.1 <u>CPC No. 20 Description</u>. This package shall provide the capabiltiy to open an Ada Text_IO file by searching the PATH environment variable and using the first occurrence of the file found along this PATH.
- 3.10.20.2 <u>CPC No. 20 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.20.3 <u>CPC No. 20 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.20.4 <u>CPC No. 20 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
 - 3.10.20.5 CPC No. 20 Limitations. The limitations of this CPC

or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

- 3.10.20.6 <u>CPC No. 20 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.21 <u>Identification of CPC No. 21</u>. This CPC is composed of the Ada package designated by CM identification code SUP021S and SUP021B and named HP SETUP.
- 3.10.21.1 <u>CPC No. 21 Description</u>. HP_Setup shall provide the capabili⁺y to set various options on the HP Laserjet printer and provide the interface to allow printing of graphics or text either direct to the printer or to a file for later printing.
- 3.10.21.2 <u>CPC No. 21 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.21.3 <u>CPC No. 21 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.21.4 <u>CPC No. 21 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.21.5 <u>CPC No. 21 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.21.6 <u>CPC No. 21 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.22 <u>Identification of CPC No. 22</u>. This CPC is composed of the Ada package designated by CM identification code SUP022S and SUP022B and named OKI_SETUP.
 - 3.10.22.1 CPC No. 22 Description. Oki_Setup shall provide the

capability set various options on the Okimate 20 color printer and provide the interface to allow printing of graphics or text either direct to the printer or to a file for later printing.

- 3.10.22.2 CPC No. 22 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.22.3 CPC No. 22 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.22.4 CPC No. 22 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.22.5 <u>CPC No. 22 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.22.6 <u>CPC No. 22 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.23 <u>Identification of CPC No. 23</u>. This CPC is composed of the Ada package designated by CM identification code SUP023S and SUP023B and named ALPS SETUP.
- 3.10.23.1 <u>CPC No. 23 Description</u>. ALPS Setup shall provide the capability to interface to the ALPS P2000 printer in a text and graphics mode and to provide both direct and file output capability.
- 3.10.23.2 <u>CPC No. 23 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.23.3 <u>CPC No. 23 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross

reference tables identifying the CPCs that interface to this CPC.

- 3.10.23.4 <u>CPC No. 23 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.23.5 <u>CPC No. 23 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.23.6 CPC No. 23 Listing. The current listing of this CPC is provided in the UDF.
- 3.10.24 <u>Identification of CPC No. 24</u>. This CPC is composed of the Ada package designated by CM identification code SUP001S and SUP001B and named SCREEN IO.
- 3.10.24.1 <u>CPC No. 24 Description</u>. This package shall provide a common set of routines for field processing and displaying messages throughout AOTS.
- 3.10.24.2 <u>CPC No. 24 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.24.3 <u>CPC No. 24 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.24.4 <u>CPC No. 24 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.24.5 <u>CPC No. 24 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.

- 3.10.24.6 <u>CPC No. 24 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.25 <u>Identification of CPC No. 25</u>. This CPC is composed of the Ada package designated by CM identification code SUP004S and SUP004B and named LISTPKG.
- 3.10.25.1 <u>CPC No. 25 Description</u>. This package shall provide a set of subprograms to manage a list of elements on a queue.
- 3.10.25.2 CPC No. 25 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.25.3 <u>CPC No. 25 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.25.4 <u>CPC No. 25 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.25.5 <u>CPC No. 25 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.25.6 CPC No. 25 Listing. The current listing of this CPC is provided in the UDF.
- 3.10.26 <u>Identification of CPC No. 26</u>. This CPC is composed of the Ada package designated by CM identification code SUP005S and SUP005B and named EDFIELD.
- 3.10.26.1 CPC No. 26 Description. This package shall provide the routines necessary to edit a field, display a field, and break the field buffer into displayable strings of the correct size on word boundaries. The editing functions allow full screen cursor positioning within a field movement of the cursor forward and backward by word insertion and overwriting of text and dele-

tion of text by character, word, and line.

- 3.10.26.2 CPC No. 26 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.26.3 <u>CPC No. 26 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.26.4 <u>CPC No. 26 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.26.5 <u>CPC No. 26 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.26.6 <u>CPC No. 26 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.27 <u>Identification of CPC No. 27</u>. This CPC is composed of the Ada package designated by CM identification code SUP006S and SUP006B and named UTILITIES.
- 3.10.27.1 <u>CPC No. 27 Description</u>. Provide a set of AOTS Utilities to do string matching and sorting.
- 3.10.27.2 <u>CPC No. 27 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.27.3 <u>CPC No. 27 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.27.4 <u>CPC No. 27 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the

UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

- 3.10.27.5 <u>CPC No. 27 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.27.6 <u>CPC No. 27 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.28 <u>Identification of CPC No. 28</u>. This CPC is composed of the Ada package designated by CM identification code SUP007S and SUP007B and named DATE TIME.
- 3.10.28.1 <u>CPC No. 28 Description</u>. Supply necessary Date and Time management procedures.
 - 3.10.28.2 <u>CPC No. 28 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
 - 3.10.28.3 <u>CPC No. 28 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
 - 3.10.28.4 CPC No. 28 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
 - 3.10.28.5 <u>CPC No. 28 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
 - 3.10.28.6 $\underline{\text{CPC No. 28 Listing}}$. The current listing of this CPC is provided in the UDF.
 - 3.10.29 <u>Identification of CPC No. 29</u>. This CPC is composed of

the Ada package designated by CM identification code SUP009S and SUP009B and named HELPTEXT.

- 3.10.29.1 <u>CPC No. 29 Description</u>. This package shall provide the ability for the user to view textual information developed by the Help editing procedure as an aid in responding to system demands for user input. Users accessing Help displays through a means other than procedure Helper will, if their system permissions are sufficient, be allowed to change any data they request be displayed. An appropriate temporary screen will be presented to users so authorized at the time of their entry into the Help procedure. No additions or deletions of Help records will be permitted during such access.
- 3.10.29.2 <u>CPC No. 29 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.29.3 <u>CPC No. 29 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.29.4 <u>CPC No. 29 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.29.5 <u>CPC No. 29 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.29.6 <u>CPC No. 29 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.30 <u>Identification of CPC No. 30</u>. This CPC is composed of the Ada package designated by CM identification code SUP014S and SUP014B and named EXPRESSION HANDLER.
- 3.10.30.1 <u>CPC No. 30 Description</u>. This package shall provide the capability to request an expression from the users terminal, validate the expression and subsequently evaluate the expression.

Expression in the context used here is a combination of logical, numeric, character, or string field names combined with several basic operators to produce a single result of logical or numeric. All field names within the expression are limited to a maximum of 40 characters consisting of 'A'-'Z', '_', and '0'-'9' and are case insensitive with all characters converted to upper case. Constant values used in the expression are limited to 40 characters if string or else the valid ranges for the base type of the constant.

- 3.10.30.2 <u>CPC No. 30 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.30.3 <u>CPC No. 30 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.30.4 <u>CPC No. 30 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.30.5 <u>CPC No. 30 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.30.6 <u>CPC No. 30 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.31 <u>Identification of CPC No. 31</u>. This CPC is composed of the Ada package designated by CM identification code SUP028S and SUP028B and named ITEM EDITOR.
- 3.10.31.1 CPC No. 31 Description. This package shall provide the routines used to display or edit an array of items, and select one of an array of items. The item definition record passed to the display_or_edit_text procedure and the display_or_select_item procedure defines the number of items in each column of the editor, the number of total items on the screen, the column offset for multiple columns on one screen, the

first row used by the editor, the number of lines used by one item, the number of fields used by one item, and an array of booleans that defines which fields are active in an item. The editing operations on item strings supported are: modify an item, insert an item before the current item, add an item to the end, and delete an item. The screen title string is displayed and the screen designator string is automatically incremented. The fields that this item editor uses are sequential from one to the maximum number needed to display one screen. This means each user should start their own field id's after the maximum used in the item editor to avoid conflicts.

- 3.10.31.2 <u>CPC No. 31 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.31.3 <u>CPC No. 31 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.31.4 <u>CPC No. 31 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.31.5 <u>CPC No. 31 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.31.6 <u>CPC No. 31 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.32 <u>Identification of CPC No. 32</u>. This CPC is composed of the Ada package designated by CM identification code SUP029S and SUP029B and named ITEM SUP TYPES.
- 3.10.32.1 <u>CPC No. 32 Description</u>. This package shall provide the types necessary to define an item definition record, component switches, and the editor mode for the generic item editor. It also contains support procedures that do not need to be instantiated for each implementation of the item editor

- 3.10.32.2 CPC No. 32 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.32.3 <u>CPC No. 32 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.32.4 <u>CPC No. 32 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.32.5 <u>CPC No. 32 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.32.6 <u>CPC No. 32 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.33 <u>Identification of CPC No. 33</u>. This CPC is composed of the Ada package designated by CM identification code SUP030S and named GLOBALS.
- 3.10.33.1 <u>CPC No. 33 Description</u>. This package will primarily provide the constants for the various version numbers of all AOTS packages, enabling the version numbers to be modified for any and/or all packages without changes to the source image.
- 3.10.33.2 CPC No. 33 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.33.3 <u>CPC No. 33 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
 - 3.10.33.4 CPC No. 33 Data Organization. The data organization

of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

- 3.10.33.5 <u>CPC No. 33 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.33.6 CPC No. 33 Listing. The current listing of this CPC is provided in the UDF.
- 3.10.34 <u>Identification of CPC No. 34</u>. This CPC is composed of the Ada package designated by CM identification code SUP031S and SUP031B and named PRINT_SUPPORT.
- 3.10.34.1 <u>CPC No. 34 Description</u>. This package shall provide the support of general interface to print files including page control and page titles.
- 3.10.34.2 <u>CPC No. 34 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.34.3 <u>CPC No. 34 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.34.4 <u>CPC No. 34 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.34.5 <u>CPC No. 34 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.34.6 <u>CPC No. 34 Listing</u>. The current listing of this CPC is provided in the UDF.

- 3.10.35 <u>Identification of CPC No. 35</u>. This CPC is composed of the Ada package designated by CM identification code SUP032S and SUP032B and named LOG IO.
- 3.10.35.1 <u>CPC No. 35 Description</u>. This package will provide the caller with the ability to append up to five strings to a text file for the purpose of logging. The named file is locked while open. A blank line is appended at the end of the file to seperate log records. NOTE: Due to a limit in VMIO, the maximum length of the strings output is 128. Anything after that will be truncated.
- 3.10.35.2 <u>CPC No. 35 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.35.3 <u>CPC No. 35 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.35.4 <u>CPC No. 35 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.35.5 <u>CPC No. 35 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.35.6 <u>CPC No. 35 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.36 <u>Identification of CPC No. 36</u>. This CPC is composed of the Ada body designated by CM identification code SUP033B and named DMSF.
- 3.10.36.1 <u>CPC No. 36 Description</u>. The DMSF Package provides all the necessary operations required by the ISS application software to interface with System files. System files are sequential files outside of the ISS Database.

- 3.10.36.2 <u>CPC No. 36 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.36.3 CPC No. 36 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.36.4 CPC No. 36 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.36.5 <u>CPC No. 36 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.36.6 <u>CPC No. 36 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.37 <u>Identification of CPC No. 37</u>. This CPC is composed of the Ada procedure designated by CM identification code SUP034P and named CALL DCL.
- 3.10.37.1 CPC No. 37 Description. This procedure will execute a DCL command passed to it from an Ada package.
- 3.10.37.2 CPC No. 37 Charts. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.37.3 <u>CPC No. 37 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.37.4 <u>CPC No. 37 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

- 3.10.37.5 <u>CPC No. 37 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.37.6 <u>CPC No. 37 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.38 <u>Identification of CPC No. 38</u>. This CPC is composed of the Ada package designated by CM identification code SUP035S and SUP035B and named SWAP EMULATORS.
- 3.10.38.1 <u>CPC No. 38 Description</u>. This package provides the capability to swap between the regular terminal emulator and the IVD terminal emulator before going into an ISS procedure which may require one or the other.
- 3.10.38.2 <u>CPC No. 38 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.38.3 <u>CPC No. 38 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.38.4 <u>CPC No. 38 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.38.5 <u>CPC No. 38 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.38.6 CPC No. 38 Listing. The current listing of this CPC is provided in the UDF.
- 3.10.39 <u>Identification of CPC No. 39</u>. This CPC is composed of the Ada procedure designated by CM identification code SUP036P and named DOS_PATH_OPEN.

- 3.10.39.1 CPC No. 39 Description. This package shall provide the capabiltiy to open a DOS file handle by searching the PATH environment variable and using the first occurrence of the file found along this PATH.
- 3.10.39.2 <u>CPC No. 39 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.39.3 <u>CPC No. 39 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.39.4 <u>CPC No. 39 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.39.5 <u>CPC No. 39 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.39.6 $\underline{\text{CPC No. 39 Listing}}$. The current listing of this CPC is provided in the UDF.
- 3.10.40 <u>Identification of CPC No. 40</u>. This CPC is composed of the assembly language source code designated by CM identification code SUP037A and named LOGICAL.
- 3.10.40.1 <u>CPC No. 40 Description</u>. LOGICAL shall provide a set of boolean operations.
- 3.10.40.2 <u>CPC No. 40 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.40.3 <u>CPC No. 40 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF.
- 3.10.40.4 <u>CPC No. 40 Data Organization</u>. The data organization of this CPC is detailed in the ASM source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.

- 3.10.40.5 <u>CPC No. 40 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the ASM source code provided in the UDF. No other limitations exist for this CPC except those defined in the ASM source code.
- 3.10.40.6 <u>CPC No. 40 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.41 <u>Identification of CPC No. 41</u>. This CPC is composed of the Ada procedure designated by CM identification code SUP038P and named CALIBRATE.
- 3.10.41.1 <u>CPC No. 41 Description</u>. This procedure will, with assistance from the user, create a data file "calib.dat" containing calibration data for the touch screen.
- 3.10.41.2 <u>CPC No. 41 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.41.3 <u>CPC No. 41 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.41.4 <u>CPC No. 41 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.41.5 <u>CPC No. 41 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.41.6 <u>CPC No. 41 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.42 <u>Identification of CPC No. 42</u>. This CPC is composed of the Ada package designated by CM identification code SUP039S and SUP039B and named TOUCH.
- 3.10.42.1 <u>CPC No. 42 Description</u>. This package provides touch screen support for the Elographics Touch Screen. The routines provide calibration of touch coordinates using the file calib.dat

which is created by the program CALIBRATE.

- 3.10.42.2 <u>CPC No. 42 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.42.3 <u>CPC No. 42 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.42.4 <u>CPC No. 42 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.42.5 <u>CPC No. 42 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.42.6 <u>CPC No. 42 Listing</u>. The current listing of this CPC is provided in the UDF.
- 3.10.43 <u>Identification of CPC No. 43</u>. This CPC is composed of the Ada procedure designated by CM identification code SUP040P and named SETOMODE.
- 3.10.43.1 <u>CPC No. 43 Description</u>. This procedure sets the operating mode of the videodisk player.
- 3.10.43.2 <u>CPC No. 43 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.43.3 <u>CPC No. 43 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.43.4 CPC No. 43 Data Organization. The data organization of this CPC is detailed in the Ada source code provided in the

- UDF. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.43.5 <u>CPC No. 43 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.43.6 CPC No. 43 Listing. The current listing of this CPC is provided in the UDF.
- 3.10.44 <u>Identification of CPC No. 44</u>. This CPC is composed of the Ada package designated by CM identification code SUP041S and SUP041B and named SONY.
- 3.10.44.1 CPC No. 44 Description. This package contains the routines specific to the Sony LDP-2000 videodisc player.
- 3.10.44.2 <u>CPC No. 44 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.44.3 <u>CPC No. 44 Interfaces</u>. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.44.4 <u>CPC No. 44 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.44.5 <u>CPC No. 44 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.44.6 CPC No. 44 Listing. The current listing of this CPC is provided in the UDF.
- 3.10.45 <u>Identification of CPC No. 45</u>. This CPC is composed of the Ada package designated by CM identification code SUP042S and SUP042B and named IVD.

- 3.10.45.1 <u>CPC No. 45 Description</u>. This package shall provide the interface to the video disk player. It is intended to contain commands common to all videodisc players that can be performed by executing the commands included in the TDL file for the device.
- 3.10.45.2 <u>CPC No. 45 Charts</u>. This CPC is defined by the design language included in it's Unit Development Folder (UDF).
- 3.10.45.3 CPC No. 45 Interfaces. The interfaces to other CPCs from this CPC are shown in the UDF. Appendix B contains graphics showing the structure of this interface. The interface to this CPC from other AOTS CPCs is defined by the specification portion of the CPC included in the UDF. Appendix B also contains cross reference tables identifying the CPCs that interface to this CPC.
- 3.10.45.4 <u>CPC No. 45 Data Organization</u>. The data organization of this CPC is detailed in the Ada source code provided in the UDF. The specification portion of the Ada source code defines the externally available data elements. The internally defined constants, symbols, and variables together with their definitions are also described in the UDF.
- 3.10.45.5 <u>CPC No. 45 Limitations</u>. The limitations of this CPC or items in this CPC are described where appropriate in the Ada source code provided in the UDF. No other limitations exist for this CPC except those defined in the Ada source code.
- 3.10.45.6 <u>CPC No. 45 Listing</u>. The current listing of this CPC is provided in the UDF.

- 4. QUALITY ASSURANCE N/A
- 5. <u>PREPARATION FOR DELIVERY</u> N/A

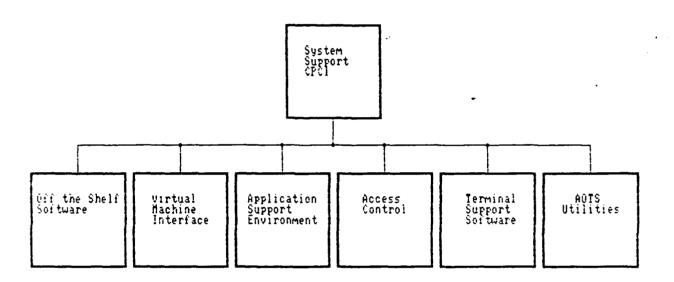


Figure 1
AOTS Visual Table of Contents
System Support CPCI

CPC Number

Part I Paragraphs (DFD Processes)	1	2	3	4	5	6	7	8	9		1	1 2	1	1	1 5	1 6	1 7	1		2	2	2	
3.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1	*	*	*		*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.1	*					*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.2		*	*		*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.3	*						*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.4	*							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.2				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.1				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.2				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.3				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.4				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.5				*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.6				*										*									
3.2.4								*	*	*													
3.2.4.1								*	*	*													
3.2.4.2								*	*														
3.2.4.3								*	*														
3.2.5								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.5.1								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.5.2								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.5.3								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Table 1 - Part I Paragraph to Part II CPC Cross Reference Matrix

CPC Number

Part I Paragraphs (DFD Processes)											3 4											
3.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.1.4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	* -
3.2.3.1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.2	*	*	*	*	×	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.4	*	*	*	*	*	*	*	*	*	*	*	*	* -	*	*	*	*	*	*	*	*	*
3.2.3.5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.3.6																						
3.2.4																,						
3.2.4.1																						
3.2.4.2																						
3.2.4.3																						
3.2.5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.5.1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.5.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3.2.5.3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Table 1 - Part I Paragraph to Part II CPC Cross Reference Matrix (Cont'd)

10. <u>APPENDIX A - CPC TABLES</u>. The following tables represent lists of specific source packages. The tables are ordered by CPC Number, CM identification, and Ada package name.

Date: 23 June 1989

INDEX BY CPC NUMBER

CPC CM Id Package Name

- 8 SUP024S RANDOM PASSWORD
- 8 SUP024B RANDOM PASSWORD
- 9 SUP026S USER_TYPE
- 9 SUP026B USER TYPE
- 10 SUP027P AOTS LOGON
- 11 SUPO10P TERMINAL
- 12 SUP011P SCREEN DUMP
- 13 SUP012S COM PORTS
- 13 SUP012B COM PORTS
- 14 SUP013S KEYBOARD
- 14 SUP013B KEYBOARD
- 15 SUP015S KBD
- 15 SUP015B KBD
- 16 SUP016S ASMINT
- 16 SUP016B ASMINT
- 17 SUP017S GRBAS
- 17 SUP017B GRBAS
- 18 SUP018A COM CODE
- 19 SUP019A GRAF CODE
- 20 SUP020P PATH OPEN
- 21 SUP021S HP SETUP
- 21 SUP021B HP SETUP
- 22 SUP022S OKT_SETUP
- 22 SUP022B OKI SETUP
- 23 SUP023S ALPS SETUP
- 23 SUP023B ALPS SETUP
 24 SUP001S SCREEN IO
- 24 GUDOOLD CONTRACTO
- 24 SUP001B SCREEN_IO
- 25 SUP004S LISTPKG
- 25 SUP004B LISTPKG 26 SUP005S EDFIELD
- 20 DUI 0050 EDITED
- 26 SUP005B EDFIELD
- 27 SUP006S UTILITIES
- 27 SUP006B UTILITIES
- 28 SUP007S DATE_TIME
- 28 SUP007B DATE TIME 29 SUP009S HELPTEXT
- 29 SUP009B HELPTEXT

INDEX BY CPC NUMBER (Cont.)

CPC CM Id Package Name

- 30 SUP014S EXPRESSION HANDLER
- 30 SUP014B EXPRESSION HANDLER
- 31 SUP028S ITEM_EDITOR
- 31 SUP028B ITEM EDITOR
- 32 SUP029S ITEM SUP TYPES
- 32 SUP029B ITEM SUP TYPES
- 33 SUP030S GLOBALS
- 34 SUP031S PRINT_SUPPORT
- 34 SUP031B PRINT SUPPORT
- 35 SUP032S LOG IO
- 35 SUP032B LOG TO
- 36 SUP033B DMSF
- 37 SUP034P CALL DCL
- 38 SUP035S SWAP EMULATORS
- 38 SUP035B SWAP EMULATORS
- 39 SUP036P DOS PATH OPEN
- 40 SUP037A LOGICAL
- 41 SUP038P CALIBRATE
- 42 SUP039S TOUCH
- 42 SUP039B TOUCH
- 43 SUP040P SETOMODE
- 44 SUP041S SONY
- 44 SUP041B SONY
- 45 SUP042S IVD
- 45 SUP042B IVD

INDEX BY CM IDENTIFICATION

CPC CM Id Package Name 24 SUP001S SCREEN IO 24 SUP001B SCREEN IO 25 SUP004S LISTPKG 25 SUP004B LISTPKG 26 SUP005S EDFIELD 26 SUP005B EDFIELD 27 SUP006S UTILITIES 27 SUP006B UTILITIES 28 SUP007S DATE TIME 28 SUP007B DATE TIME 29 SUP009S HELPTEXT 29 SUP009B HELPTEXT 11 SUP010P TERMINAL 12 SUP011P SCREEN DUMP 13 SUP012S COM_PORTS 13 SUP012B COM PORTS 14 SUP013S KEYBOARD 14 SUP013B KEYBOARD 30 SUP014S EXPRESSION HANDLER 30 SUP014B EXPRESSION_HANDLER 15 SUP015S KBD 15 SUP015B KBD 16 SUP016S ASMINT 16 SUP016B ASMINT 17 SUP017S GRBAS 17 SUP017B GRBAS 18 SUP018A COM CODE 19 SUP019A GRAF CODE 20 SUP020P PATH OPEN 21 SUP021S HP_SETUP 21 SUP021B HP SETUP 22 SUP022S OK I SETUP 22 SUP022B OKI SETUP 23 SUP023S ALPS_SETUP 23 SUP023B ALPS SETUP 8 SUP024S RANDOM PASSWORD

8 SUP024B RANDOM PASSWORD

INDEX BY CM IDENTIFICATION (Cont.)

CPC CM Id Package Name

- 9 SUP026S USER TYPE
- 9 SUP026B USER TYPE
- 10 SUP027P AOTS LOGON
- 31 SUP028S ITEM EDITOR
- 31 SUP028B ITEM EDITOR
- 32 SUP029S ITEM SUP TYPES
- 32 SUP029B ITEM SUP TYPES
- 33 SUP030S GLOBĀLS
- 34 SUP031S PRINT_SUPPORT
- 34 SUP031B PRINT SUPPORT
- 35 SUP032S LOG IO
- 35 SUP032B LOG IO
- 36 SUP033B DMSF
- 37 SUP034P CALL DCL
- 38 SUP035S SWAP EMULATORS
- 38 SUP035B SWAP EMULATORS
- 39 SUP036P DOS PATH OPEN
- 40 SUP037A LOGICAL
- 41 SUP038P CALIBRATE
- 42 SUP039S TOUCH
- 42 SUP039B TOUCH
- 43 SUP040P SETOMODE
- 44 SUP041S SONY
- 44 SUP041B SONY
- 45 SUP042S IVD
- 45 SUP042B IVD

Code Ident 76301 Date: 23 June 1989

INDEX BY PACKAGE NAME

CPC CM Id Package Name 23 SUP023S ALPS SETUP 23 SUP023B ALPS SETUP 10 SUP027P AOTS LOGON 16 SUP016S ASMINT 16 SUP016B ASMINT 41 SUP038P CALIBRATE 37 SUP034P CALL DCL 18 SUP018A COM CODE 13 SUP012S COM PORTS 13 SUP012B COM PORTS 28 SUP007S DATE TIME 28 SUPOO7B DATE TIME 36 SUP033B DMSF 39 SUP036P DOS PATH OPEN 26 SUP005S EDFIELD 26 SUP005B EDFIELD 30 SUP014S EXPRESSION HANDLER 30 SUP014B EXPRESSION HANDLER 33 SUP030S GLOBALS 19 SUP019A GRAF CODE 17 SUP017S GRBAS 17 SUP017B GRBAS 29 SUP009S HELPTEXT 29 SUP009B HELPTEXT 21 SUP021S HP SETUP 21 SUP021B HP SETUP 31 SUP028S ITEM EDITOR 31 SUP028B ITEM EDITOR 32 SUP029S ITEM SUP TYPES 32 SUP029B ITEM SUP TYPES 45 SUP042S IVD 45 SUP042B IVD 15 SUP015S KBD 15 SUP015B KBD 14 SUP013S KEYBOARD 14 SUP013B KEYBOARD 25 SUP004S LISTPKG

25 SUP004B LISTPKG

INDEX BY PACKAGE NAME (Cont.)

CPC CM Id Package Name

- 40 SUP037A LOGICAL
- 35 SUP032S LOG IO
- 35 SUP032B LOG_IO
- 22 SUP022S OKI_SETUP
- 22 SUP022B OKI SETUP
- 20 SUP020P PATH OPEN
- 34 SUP031S PRINT SUPPORT 34 SUP031B PRINT SUPPORT
- 8 SUP024S RANDOM PASSWORD
- 8 SUP024B RANDOM PASSWORD
- 12 SUP011P SCREEN DUMP
- 24 SUP001S SCREEN IO
- 24 SUP001B SCREEN IO
- 43 SUP040P SETOMO $\overline{D}E$
- 44 SUP041S SONY
- 44 SUP041B SONY
- 38 SUP035S SWAP EMULATORS
- 38 SUP035B SWAP EMULATORS
- 11 SUP010P TERMINAL
- 42 SUP039S TOUCH
- 42 SUP039B TOUCH
- 9 SUP026S USER_TYPE
- 9 SUP026B USER TYPE
- 27 SUP006S UTILITIES
- 27 SUP006B UTILITIES

20. APPENDIX B - CPC REFERENCE LIST AND CHARTS. The following pages detail for each CPC the list of AOTS CPCs that reference the CPC and the interdependencies of the CPC with other CPCs. The CM Identifications are shown on the chart as 'x' to represent an Ada package (both specification and body portions). Due to space limitations the package name is limited to ten characters, the CPCs from a different CPCI are not expanded, CPCs that appear multiple times are only expanded once, and not all ISS references are shown.

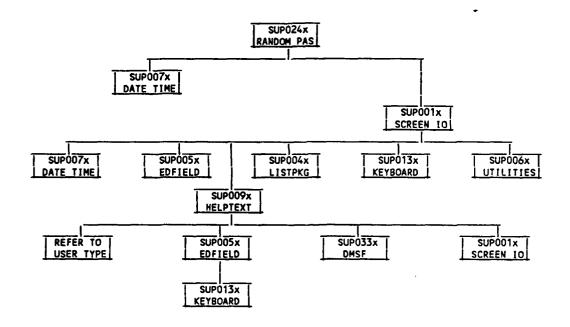
CPC No. 8 CM Id SUP024S Package RANDOM_PASSWORD Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 8 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC	CM ID	PACKAGE NAME
58 9 9 10	MGT032S SUP026S SUP026B SUP027P	ATR USER TYPE USER TYPE AOTS_LOGON

CPC No. 8 CM Id SUP024S Package RANDOM_PASSWORD



CPC No. 9 CM Id SUP026S Package USER_TYPE Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 9 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

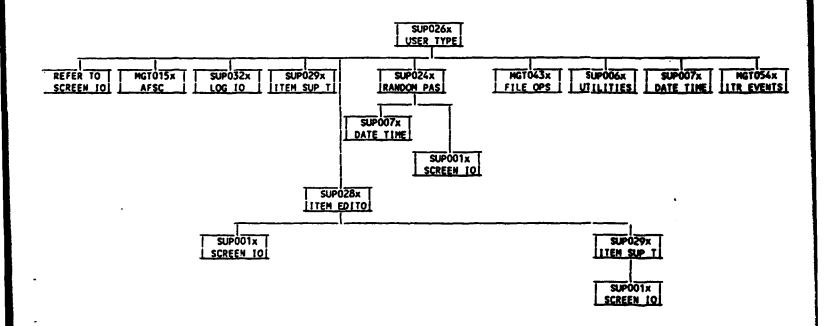
CPC	CM ID	PACKAGE NAME
11456111445823470033488034558036900014667788990112244455 1111111	EVL0018 EVL005B EVL0078 EVL00778 EVL0178 EVL0178 EVL0188 EVL0188 EVL0188 EVL023P MGT0188 MGT0188 MGT0188 MGT0188 MGT0188 MGT0558 MGT0488 MGT0558 MGT0488 MGT0498 MGT01138 MGT01138 MGT11138 MGT11138 MGT11138 MGT11138 MGT11138 MGT11138 MGT11138 MGT11138 MGT11138 MGT11138 MGT11138 MGT11138 MGT10338 MGT03318 MGT03318 MGT03318 MGT03318 MGT0338 MGT0338 MGT0338 MGT0338 MGT03468 MGT0458 MGT0458 MGT0458 MGT0458 MGT0458 MGT0458 MGT0468	BOE BOE TEST EDITOR TIB TYPE TEST ITEM BANK_EDITOR TEST_PRES TEST_PRES OFFLINE TEST OTHER TRS OTHER TRS OTHER TRS OTHER TRS OC EVAL MOC EVAL MAP TASK MAP TASK MAP TASK MAP TASK MTL BUFFER MTL FUNCTION SELECT GPTR EDIT OPTR EDIT OPTR EDIT OPTR EDIT OPTR EDIT OPTR EDIT UPDATE TRAINING RECORDS ITR RECORD UPDATE REPORT TYPES SUB PRINT UPDATE TRAINING RECORDS ITR RECORD UPDATE REPORT TYPES REPORTS PRINT REPORTS ITEM ITR ITR ITR ITR EVENTS EVENTS EVENTS EVENT ATR ATR TRAINING HIST TRAINING HIST TRAINING HIST TRAINING HIST OUAL ASS EVENT TYPES EVENT TYPES GENERAL TRNG FORMAL TRNG

CPC No. 9 CM Id SUP026S Package USER_TYPE Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 9 Reference List (cont).

CPC	CM ID	PACKAGE NAME
666789900122333445779900094	MGT0478 MGT0478 MGT0478 MGT0120P MGT120P MGT0548 MGT0548 MGT0628 MGT0628 MGT0648 MGT0658 MGT0658 MGT0888 MGT08888 MGT08888 MGT08888 MGT08888 MGT0388	ANCADDCON ANCADDCON PDS TO AOTS CHECK CHANGES ITR EVENTS ITR EVENTS ITR PRINT ITR PRINT ITR BG MAP DISPLAY MAP DISPLAY ITR TYPES ITR TYPES ITR TYPES ITR ECI ITR ECI TRAINING TYPES SCHEDULER SCHEDULER SCHEDULER QCADMIN PME EDIT PME EDIT AOTS LOGON HELPTEXT PRINT SUPPORT
34 34	SUP031B	PŘÍŇŤ SUPPOŘŤ

CPC No. 9 CM Id SUP026S Package USER_TYPE



CPC No. 10 CM Id SUP027P Package AOTS_LOGON Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 10 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC CM ID PACKAGE NAME

None

CPC No. 10 CM Id SUP027P Package AOTS_LOGON

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

SUNDANT SEE COLES TOURSHAM SECCESS TOTH RECORD NOT SUNDANT SUN 122 | 130-2455 | FOLOSTA | EVEOSTA | FOLOSTA | SUP027P

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:. • CPC No. 11 CM Id SUP010P Package TERMINAL

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 11 Reference List.

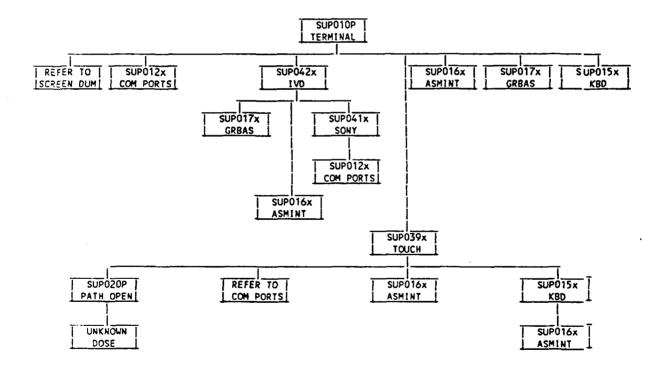
The following list represents all AOTS CPCs that reference this CPC:

CPC CM ID

PACKAGE NAME

None

CPC No. 11 CM Id SUP010P Package TERMINAL



CPC No. 12 CM Id SUP011P Package SCREEN_DUMP

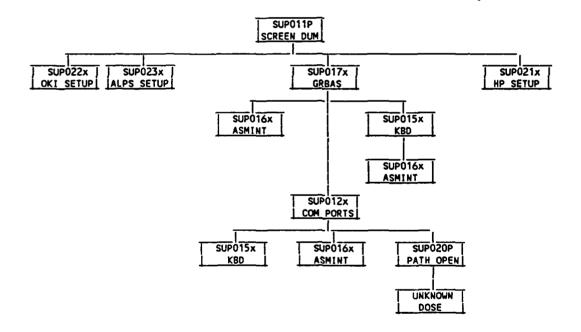
Specification Number 705647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 12 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC CM ID PACKAGE NAME 11 SUP010P TERMINAL

CPC No. 12 CM Id SUP011P Package SCREEN_DUMP



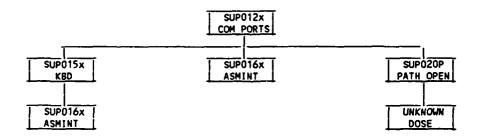
CPC No. 13 CM Id SUP012S Package COM_PORTS

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 13 Reference List.

CPC	CM ID	PACKAGE NAME
11	SUP010P	TERMINAL
17	SUP017B	GRBAS
41	SUP038P	CALIBRATE
42	SUP039B	TOUCH
44	SUP041B	SONY

CPC No. 13 CM Id SUP012S Package COM_PORTS



CPC No. 14 CM Id SUP013S Package KEYBOARD Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 14 Reference List.

CPC	CM ID	PACKAGE NAME
1	EVL001B	BOE
10	EVL016B	CR QUES
27	MGT092B	MTL COMMON
50	MGT114P	REPORTS
24	SUP001B	SCREEN IO
26	SUP005B	EDFIELD

CPC No. 14 CM Id SUP013S Package KEYBOARD

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

SUP013x KEYBOARD

CPC No. 15 CM Id SUP015S Package KBD Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 15 Reference List.

CPC	CM ID	PACKAGE NAME
11	SUP010P	TERMINAL
13	SUP012B	COM PORTS
17	SUP017B	GRBAS
42	SUP039B	TOUCH

CPC No. 15 CM Id SUP015S Package KBD



CPC No. 16 CM Id SUP016S Package ASMINT Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 16 Reference List.

CPC	CM ID	PACKAGE NAME
11 13 15 17 41 42 43	SUP010P SUP012B SUP015B SUP017B SUP038P SUP039B SUP040P SUP042B	TERMINAL COM_PORTS KBD— GRBAS CALIBRATE TOUCH SETOMODE IVD

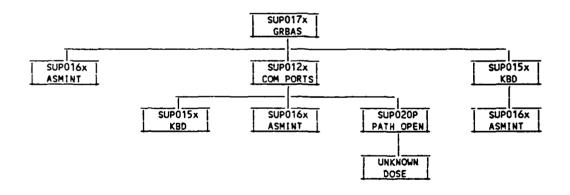
CPC No. 16 CM Id SUP016S Package ASMINT Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

SUP016x ASMINT CPC No. 17 CM Id SUP017S Package GRBAS Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 17 Reference List.

CPC	CM ID	PACKAGE NAME
11	SUP010P	TERMINAL
12	SUP011P	SCREEN DUMP
41	SUP038P	CALIBRATE
43	SUP040P	SETOMODE
45	SUP042B	IVD

CPC No. 17 CM Id SUP017S Package GRBAS



CPC No. 20 CM Id SUP020P Package PATH_OPEN Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 20 Reference List.

CPC	CM ID	PACKAGE NAME
13	SUP012B	COM PORTS
42	SUP039B	TOUCH

CPC No. 20 CM Id SUP020P Package PATH_OPEN



CPC No. 21 CM Id SUP021S Package HP_SETUP Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 21 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC CM ID PACKAGE NAME
12 SUP011P SCREEN DUMP

CPC No. 21 CM Id SUP021S Package HP_SETUP Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

SUP021x HP_SETUP CPC No. 22 CM Id SUP022S Package OKI_SETUP

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 22 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC PACKAGE NAME CM ID SCREEN_DUMP 12 SUP011P

CPC No. 22 CM Id SUP022S Package OKI_SETUP

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

SUP022x | OKI SETUP

CPC No. 23 CM Id SUP023S Package ALPS_SETUP

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 23 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC CM ID PACKAGE NAME
12 SUP011P SCREEN_DUMP

CPC No. 23 CM Id SUP023S Package ALPS_SETUP Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

SUP023x ALPS SETUP CPC No. 24 CM Id SUP001S Package SCREEN_IO Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 24 Reference List.

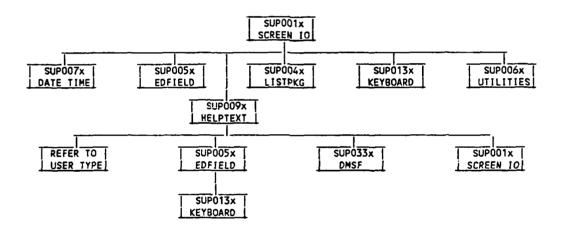
CPC No. 24 CM Id SUP001S Package SCREEN_IO

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 24 Reference List (cont).

CPC	CM ID	PACKAGE NAME
556788901223456789023334708990890112248	MGT039B MGT031B MGT032B MGT032B MGT033BB MGT033BB MGT044BB MGT0443B MGT0445B MGT0445B MGT045BB MGT0465B MGT0665B MGT0665B MGT0665B MGT0665B MGT065BB MGT0065BB MGT0065BB MGT0065BB MGT00226BS MGT00226BS MGT00228BS MGT00228BS MGT00228BS MGT00228BS MGT00228BS MGT00228BS MGT00228BS MGT00228BS MGT00228BS MGT00228BS MGT00	IMEDIT ITR EVENTS ATR ATR TRAINING HIST OUAL ASS— EVENT TYPES GENERAL TRNG GENERAL TRNG GENERAL TRNG FILE OPS FORMAL TRNG ECI CDC ANCADDCON PDS TO AOTS CHECK CHANGES ITR EVENTS ITR—PRINT MAP—DISPLAY ITR—TYPES ITR—TYPES ITR—TYPES ITR—ECI SCHEDULER PME EDIT RANDOM PASSWORD USER—TYPE AOTS—LOGON DATE—TIME HELPTEXT EXPRESSION HANDLER ITEM—EDITOR ITEM—EDITOR ITEM—SUP—TYPES PRINT SUPPORT SWAP—EMULATORS
		- · · · · · · · · · · · · · · · · · · ·

CPC No. 24 CM Id SUP001S Package SCREEN_IO



CPC No. 25 CM Id SUP004S Package LISTPKG

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 25 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC PACKAGE NAME CM ID 24 SUP001B SCREEN IO

CPC No. 25 CM Id SUP004S Package LISTPKG

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

SUP004x LISTPKG CPC No. 26 CM Id SUP005S Package EDFIELD Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 26 Reference List.

CPC	CM ID	PACKAGE NAME
7 1 62 23 59 66 77 10 29 34	EVL008B EVL019B MGT017B MGT060B MGT098B MGT033B MGT045B MGT047B MGT063P MGT063P MGT063P SUP001B SUP001B	OUESTION ALTS ACTIVITY FINAL MTL FUNCTIONS SUB PRINT TRAINING HIST FORMAL TRNG ANCADDCON ITR PRINT ITR-BG PME EDIT SCREEN IO HELPTEXT PRINT_SUPPORT

CPC No. 26 CM Id SUP005S Package EDFIELD



CPC No. 27 CM Id SUP006S Package UTILITIES Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 27 Reference List.

CPC	CM ID	PACKAGE NAME
12413555746680940 2255566 23	EVL001B EVL002B EVL018B MGT002B MGT004B MGT016B MGT092B MGT092B MGT030B MGT030B MGT032B MGT039B SUP026B SUP014B	BOE VERB CHECK OFFLINE TEST TASK PPT TASK SELECT PRIOR MTL UNIT CODES OPTR EDIT MTL COMMON ITEM ITR ATR QUAL ASS USER TYPE SCREEN IO EXPRESSION_HANDLER

CPC No. 27 CM Id SUP006S Package UTILITIES

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

SUP006x UTILITIES CPC No. 28 CM Id SUP007S Package DATE_TIME Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 28 Reference List.

CPC	CM ID	PACKAGE NAME
14781144781233503348789036900014566788990112244455666686666666666666666666666666666	EVL0018BBEVL0018BEVL0018BEVL0017BEVL0017BEVL0017BEVL0017BEVL0017BEVL0018BEVL00	BOE TEST EDITOR QUESTION PM OTG TEST PRES TEST PRES OFFLINE TEST OFFLINE TEST FORM PROCESSING SCANTRON TASK PP MTL SUPPORT TASK SELECT PRIOR TASK SELECT PRIOR MTL UNIT CODES OTHER TRS QC EVAL QC EVAL MQC EVAL MAP TASK MTL COMMON MTL INFREQUENT MTL TYPES SUB PRINT UPDATE TRAINING RECORDS ITR RECORD ITR REPORT ERPORT TYPES REPORT TYPES REPORTS PRINT REPORTS ITEM TIME ITR ITR ITR ITR ITR ITR EVENTS ATR TRAINING HIST OUAL ASS EVENT TYPES EVENT TYPES EVENT TYPES GENERAL TRNG GENERAL TRNG FORMAL

CPC No. 28 CM Id SUP007S Package DATE_TIME Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 28 Reference List (cont).

CPC	CM ID	PACKAGE NAME
6901233553457089400 1 2330	MGT054B MGT062B MGT063P MGT065S MGT065B MGT067P MGT088B MGT088B MGT088B MGT044B SUP024B SUP024B SUP024B SUP014S	ITR EVENTS ITR PRINT ITR BG MAP DISPLAY ITR TYPES ITR TYPES EXTRACT DAILY RUN ITR ECI TRAINING TYPES SCHEDULER PME EDIT RANDOM PASSWORD USER TYPE SCREEN IO EXPRESSION HANDLER EXPRESSION HANDLER
34	SUP031B	PRINT_SUPPORT

CPC No. 28 CM Id SUP007S Package DATE_TIME Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

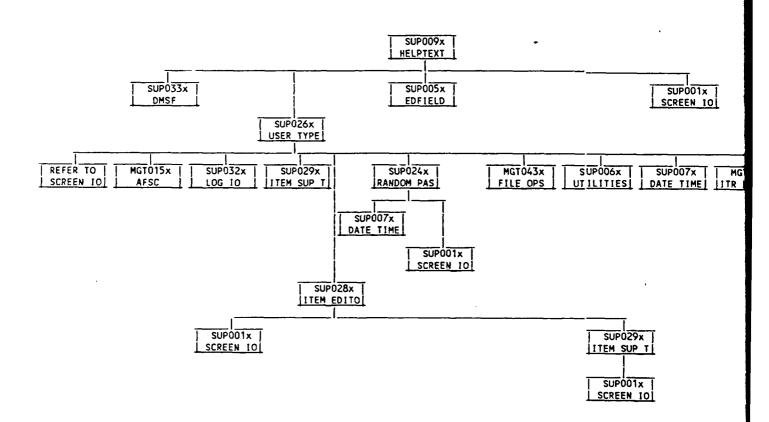
SUP007x DATE TIME

CPC No. 29 CM Id SUP009S Package HELPTEXT Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 29 Reference List.

CPC	CM ID	PACKAGE NAME
27	MGT092B	MTL COMMON
10	SUP027P	AOTS LOGON
24	SUP001B	SCREEN IO

CPC No. 29 CM Id SUP009S Package HELPTEXT Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989



B - 43

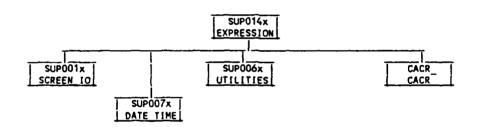
CPC No. 30 CM Id SUP014S Package EXPRESSION_HANDLER

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 30 Reference List.

CPC	CM ID	PACKAGE NAME
3 10 27 58	MGT004S MGT004B MGT024B MGT092B MGT032B	TASK SELECT PRIOR TASK SELECT PRIOR OTHER TRS MTL COMMON ATR

CPC No. 30 CM Id SUP014S Package EXPRESSION_HANDLER

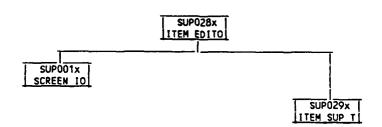


CPC No. 31 CM Id SUP028S Package ITEM_EDITOR Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 31 Reference List.

CPC	CM ID	PACKAGE NAME
8836795567904569400 1255556666910	EVL009B EVL023P MGT004B MGT017B MGT018B MGT023B MGT030B MGT030B MGT031B MGT031B MGT033B MGT045B MGT045B MGT045B MGT045B MGT046B MGT047B	PM OTG SCANTRON TASK SELECT_PRIOR ACTIVITY SUBTASKS PTR SUPPORT OTR EDIT OPTR EDIT ITR EVENTS TRAINING HIST OUAL ASS FORMAL TRNG ECI CDC ANCADDCON ITR EVENTS ITR EVENTS ITR ECI PME EDIT
9 10	SUP026B SUP027P	USER_TYPE AOTS_LOGON

CPC No. 31 CM Id SUP028S Package ITEM_EDITOR



CPC No. 32 CM Id SUP029S Package ITEM_SUP_TYPES

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 32 Reference List.

CPC	CM ID	PACKAGE NAME
8836795567904569409011 125555666669109011	EVL009B EVL023P MGT004B MGT017B MGT018B MGT050B MGT050B MGT030B MGT031B MGT033B MGT0346B MGT046B MGT046B MGT046B MGT046B MGT047B MGT046B MGT047B MGT046B MGT047B MGT048B MGT048B MGT048B MGT048B MGT048B SUP027P SUP028B	PM OTG SCANTRON TASK SELECT PRIOR ACTIVITY SUBTASKS PTR SUPPORT OTR EDIT OPTR EDIT ITR — EVENTS TRAINING HIST OUAL ASS— FORMAL TRNG ECI CDC ANCADDCON ITR EVENTS ITR—ECI PME—EDIT USER TYPE AOTS—LOGON ITEM—EDITOR

CPC No. 32 CM Id SUP029S Package ITEM_SUP_TYPES

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

SUP029x

CPC No. 33 CM Id SUP030S Package GLOBALS Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 33 Reference List.

CPC	CM ID	PACKAGE NAME
C 12456789248212345679584578901504679124924 1112 112222233355555666679	CM ID EVL001B EVL0025B EVL0066B EVL0078B EVL0098B EVL0098B EVL0198B EVL0188P EVL0128B MGT0034B MGT00156B MGT0156B MGT0178B MGT018B MGT031B MGT033B MGT03B MGT0B MGT0B	PACKAGE NAME BOE VERB_CHECK TEST_EDITOR TIB_TYPE TEST_ITEM_BANK_EDITOR OUESTION PM_OTG GRAFIX ALTS OFFLINE TEST SCANTRON DOTIE TASK PP MTL SUPPORT TASK SELECT_PRIOR AFSC_ MTL UNIT CODES ACTIVITY— SUBTASKS PTR_SUPPORT OTR_EDIT MAP_TASK GPTR_EDIT MTL_TYPES SUB_FUNC SUB_TUTL REPORTS ITEM ITR EVENTS TRAINING HIST EVENT TYPES GENERAL TRNG FORMAL TRNG ITR EVENTS MAP_DISPLAY ITR_ECI
100 10	MGT044B SUP027P	PME EDIT AOTS_LOGON

CPC No. 33 CM Id SUP030S Package GLOBALS Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

SUP030x | GLOBALS CPC No. 34 CM Id SUP031S Package PRINT_SUPPORT Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 34 Reference List.

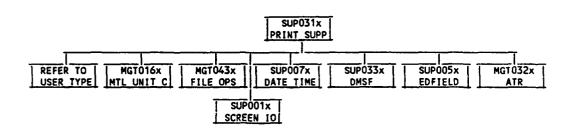
CPC	CM ID	PACKAGE NAME
114556778822347011235566990036692234589333345555555566	13BBSBSBSBSBSBSBSBSBSBSBSBSBSBSBSBSBSBSB	BOE BOE TEST EDITOR TIB TYPE TIB TYPE TIEST JEEM BANK EDITOR OUESTION PM OTG PM OTG PM OTG ALTS ALTS ALTS TEST PRINT OFFLINE TEST FORM PROCESSING TIE — TASK PP MTL SUPPORT TASK SELECT PRIOR MTL UNIT CODES MTL UNIT CODES MTL UNIT CODES ACTIVITY PTR SUPPORT OTHER TRS OC EVAL OTR PRINT OTR PRINT OTR PRINT FINAL MTL FUNCTIONS FINAL THE PRINT SUB PRINT SUB PRINT SUB PRINT SUB PRINT UPDATE TRAINING RECORDS ITR RECORD UPDATE REPORTS VALIDATE PKG VALIDATE PKG VALIDATE PKG ITEM TRAINING HIST

CPC No. 34 CM Id SUP031S Package PRINT_SUPPORT Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 34 Reference List (cont).

CPC	CM ID	PACKAGE NAME
64	MGT045S	FORMAL TRNG
64	MGT045B	FORMAL TRNG
65	MGT046S	ECI CDC
65	MGT046B	ECT—CDC
66	MGT047S	ANCADDCON
66	MGT047B	ANCADDCON
67	MGT118P	PDS TO AOTS
68	MGT120P	CHECK CHANGES
70	MGT062S	ITR PRINT
70	MGT062B	ÎTR-PRÎNT
71	MGT063P	ÎTR-BG
75	MGT067P	EXTRACT
100 100 10	MGT044S MGT044B SUP027P	PME EDIT PME EDIT AOTS LOGON

CPC No. 34 CM Id SUP031S Package PRINT_SUPPORT



CPC No. 35 CM Id SUP032S Package LOG_IO Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 35 Reference List.

CPC	CM ID	PACKAGE NAME
13 57 58 69 97	MGT048B MGT031B MGT032B MGT054B MGT038B SUP026B	QC_EVAL EVENTS ATR ITR_EVENTS SCHEDULER USER_TYPE

CPC No. 35 CM Id SUP032S Package LOG_IO

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

SUP032x LOG IO CPC No. 36 CM Id SUP033B Package DMSF Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 36 Reference List.

CPC	CM ID	PACKAGE NAME
1149011144709222578004488992244556666677023333	EVL017B EVL017B EVL018B EVL018BS EVL026P MGT0028B MGT0015B MGT0015B MGT0015B MGT0015B MGT0057P MGT0060B MGT093B MGT093B MGT0113P MGT007B MGT0033B MGT042B MGT047B MGT04B M	TEST PRES OFFLINE TEST TIETYPES TIE TASK PP TASK PP TASK PP AFSC AFSC SUBTASKS OTHER TRS FINAL MTL GEN FINAL MTL FUNCTIONS FINAL MTL FUNCTIONS OPTR EDIT MTL COMMON MTL INFREQUENT REPORT TYPES REPORTS ITEM ITEM ATR TRAINING HIST TRAINING HIST GENERAL TRNG FORMAL TRNG FORMAL TRNG FORMAL TRNG FORMAL TRNG FORMAL TRNG FORMAL TRNG ECI CDC ANCADDCON ANCADDCON ANCADDCON CHECK CHANGES ITR TYPES EXTRACT PME EDIT HELPTEXT PRINT SUPPORT PRINT SUPPORT PRINT SUPPORT SWAP_EMULATORS

CPC No. 36 CM Id SUP033B Package DMSF

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

SUP033x | DMSF CPC No. 37 CM Id SUP034P Package CALL_DCL Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 37 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC CM ID PACKAGE NAME
93 MGT085P DAILY RUN

CPC No. 37 CM Id SUP034P Package CALL_DCL

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

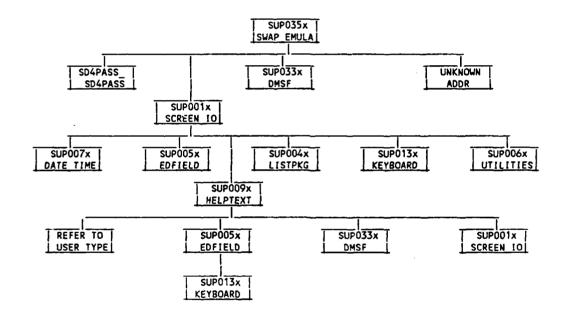
SUP034P | CALL DCL

CPC No. 38 CM Id SUP035S Package SWAP_EMULATORS Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 38 Reference List.

CPC	CM ID	PACKAGE NAME
1	EVL001B	BOE
56	MGT030B	ITR
72	MGT064B	MAP DISPLAY
10	SUP027P	AOTS LOGON

CPC No. 38 CM Id SUP035S Package SWAP_EMULATORS



CPC No. 39 CM Id SUP036P Package DOS_PATH_OPEN Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 39 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC CM ID

CM ID PACKAGE NAME

None

CPC No. 39 CM Id SUP036P Package DOS_PATH_OPEN



CPC No. 41 CM Id SUP038P Package CALIBRATE Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

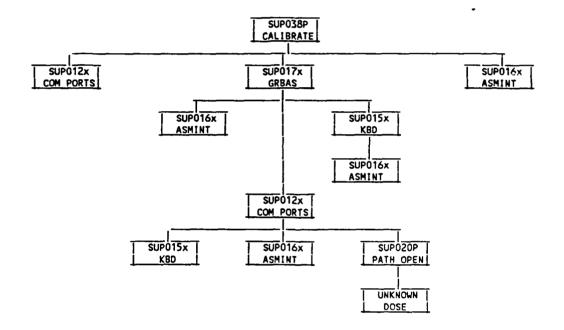
CPC No. 41 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC CM ID PAÇKAGE NAME

None

CPC No. 41 CM Id SUP038P Package CALIBRATE



CPC No. 42 CM Id SUP039S Package TOUCH

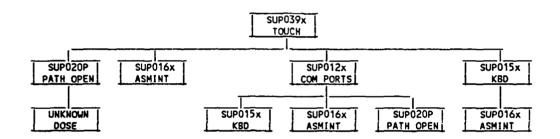
Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 42 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC CM ID PACKAGE NAME
11 SUP010P TERMINAL

CPC No. 42 CM Id SUP039S Package TOUCH



CPC No. 43 CM Id SUP040P Package SETOMODE

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

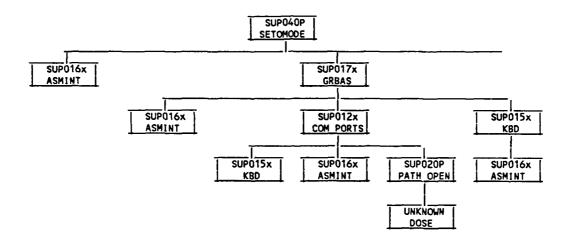
CPC No. 43 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC CM ID PACKAGE NAME

None

CPC No. 43 CM Id SUP040P Package SETOMODE



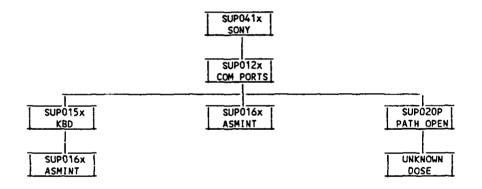
CPC No. 44 CM Id SUP041S Package SONY Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 44 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC CM ID PACKAGE NAME
45 SUP042B IVD

CPC No. 44 CM Id SUP041S Package SONY



CPC No. 45 CM Id SUP042S Package IVD

Specification Number 70S647414 Code Ident 76301 Date: 23 Jun 1989

CPC No. 45 Reference List.

The following list represents all AOTS CPCs that reference this CPC:

CPC PACKAGE NAME CM ID 11 TERMINAL SUP010P

CPC No. 45 CM Id SUP042S Package IVD

